

Magi Craft Meister

**- Volume 4 -
Base Arc**

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マギクラフト マイスター

人物紹介

Automata
Reiko



Nidoh Jin



エゲレア王国

ブルーランド

国境

メタロフ町

デルフト峠

首都ボルジア

リナート町

ハンバルフ峠

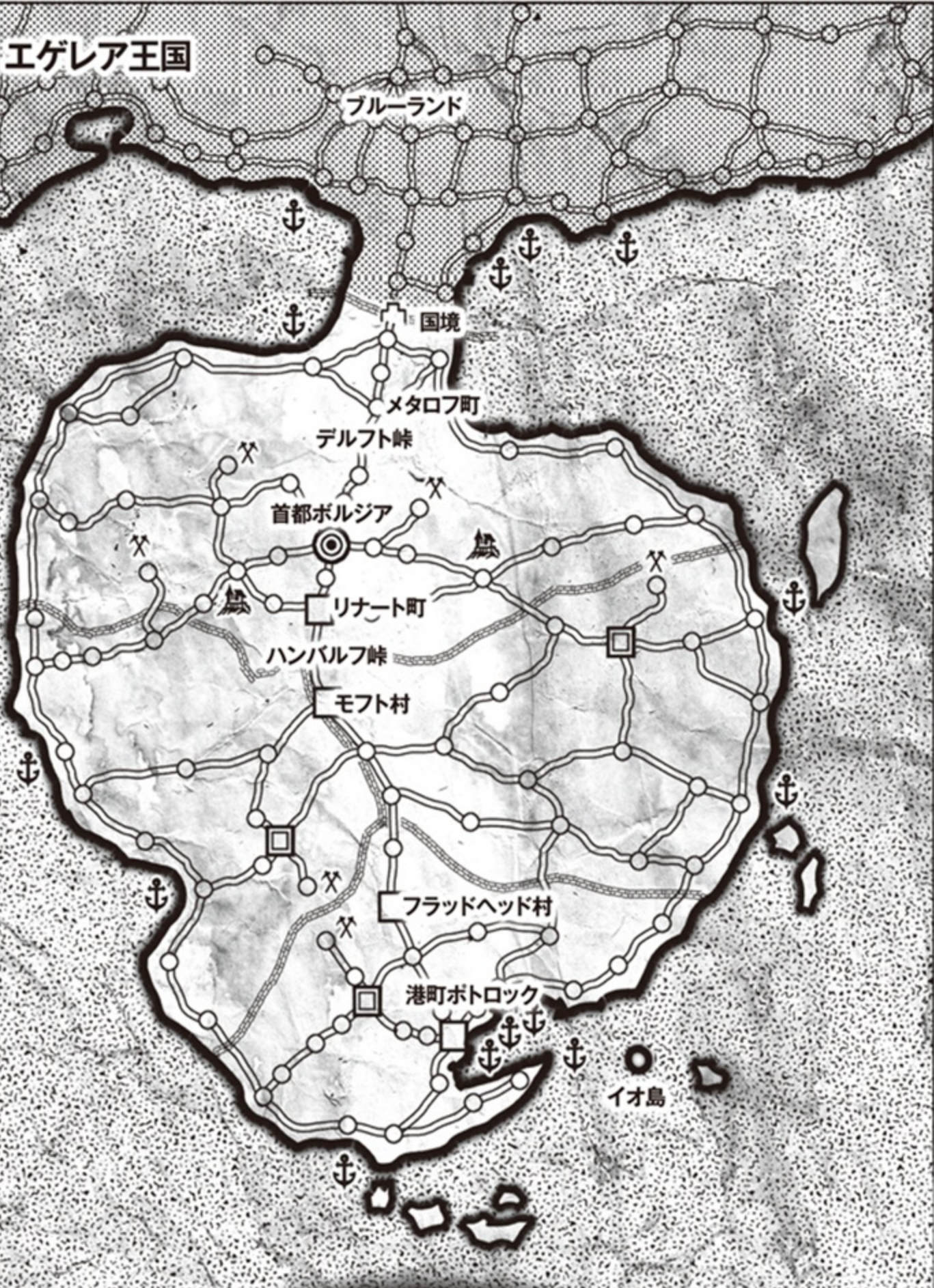
モフト村

フラッドヘッド村

港町ボトロック

イオ島

エリアス王国



CHAPTER 1

FIRST FLIGHT

After admiring the scene that was Port Rock, Jin took a short trip back to Hourai Island.

He would later return to Port Rock at another date for another 10 days, before he planned to visit the Imperial Aristocracy of Cecilio with Reinhardt.

They gained a lot of things from visiting Port Rock. Fish sauce could be found but sadly there still wasn't any rice.

「Ahh...as I thought, baths are great.」

There were only showers in Port Rock, so for the first time in a while, Jin was relaxing in a morning bath.

「Father, I will wash your back.」

The line was from Reiko. While she had the appearance of a 10 year old girl, she was actually a super automata, capable of fighting an entire country.

「Ah, thanks.」

While having his back washed by Reiko, Jin was thinking of the future.

「I want to make a high speed vehicle. I think an air-plane that uses a magic jet propulsion engine would be appropriate.」

A jet engine that uses wind magic. Making jet planes before propeller planes was made possible thanks to the unique trait of this world that was Magic.

After getting out of the bath, Jin prepared a large amount of 《Light Silver》.

《Light Silver》 is light weight and a good conductor of magic power. Its identity is the element with the atomic number 22, Titanium, with the 26 neutrons replaced with magic particles.

It was no wonder that Jin chose this as the material for the aircraft. It was also decided that the windshield would be made from a transparent crystal instead of glass.

It was possible to start construction of the plane straight away because he had already decided on the materials used.

「Hmm... first is normal tapered wings, we don't want swept wings.」 (Straight Wings and Angled Wings, – vs v, respectively.)

From the beginning, there was no plan of the aircraft that would break the speed of sound.

「Now, where to install the engine?」

The thrust should be along the aircraft's centre of gravity to make it easy to balance.

「It can be put at the back, just before the air intake.」

Gradually it began to take shape.

「The problem is the flight control system.」

You couldn't make a real air-plane cockpit from a model one. There wasn't that much information from games.

「Well, elevator control stick, rudder, and this will probably move the ailerons」

He decided on the operation of the plane from his very limited knowledge.

「Throttle and brake, brake has to connect to the flaps...」

Working earnestly, Jin finished his construction in no time. The mass of 《Light Silver》 had now transformed into an air-plane, clad in shining silver.

「Autopilot is not possible but it'll survive running by itself for a while.」

Just like the time when constructing a golem, and with the previous experience of making a glider golem, a navigation aid system was assembled.

In this way, it was a prototype made a combination of technologies.

「Done.」

That afternoon, the first prototype aircraft was completed. 5 parallel runways were made by golem No. 1, under the command of the Land Developer Topaz.

「Well, let's run a test flight.」

Jin was about to board the plane in high spirits when,

「Father, please wait.」

Reiko stopped him.

「According to what you said, this magic device is going to fly in the sky?」

「Ah, yes.」

「Although I believe in father's technology, if by any chance it breaks, what will you do?」

「.....」

He hadn't considered any safety measures and didn't design a parachute.

「Please let me try first father.」

Reiko is a super automata and could easily cope with most situations thrown at her.

「Mmm, I understand Reiko. I'll leave the first flight to you.」

「Yes, I understand.」

So, using information transfer, the knowledge on flying planes was passed to Reiko. The seat height was also readjusted because it was too low for Reiko. Finally, it was time for the first flight.

「Well then, time to start.」

The wind was weak, the perfect weather for flight, so Reiko started up the Magic jet engine.

There was a sound from the air intake as the prototype began to glide. As the speed gradually increased, Reiko moved the control stick.

「Yes! It's flying!」

The prototype lifted slightly and began flying into the blue sky.

「It's a success!」

Reiko flew around the periphery of the Island and when she became familiar with the controls to some extent, she began to test the limits of speed, climb, dive and sharp turns.

While it was only a visual estimation, the speed was about 400K/ph to 500K/ph. There was no problem with stability during climbs, dives and sharp turns.

This is largely because of the 《Light Silver》 which has a 5 times greater strength property than Duralumin for the same weight. In addition, the navigational auxiliary was also learning and starting to support.

「Ah, I want a communication device.」

A video camera can be reproduced from the magic eye monitor and magic projection screen he saw during the competition in Port Rock.

「I should make a magic ear and magic mouth.」

The names were only tentative for now.

The sun was starting to go down, so Jin signalled to Reiko to come down.

Reiko lowered her altitude and came back towards the straight runway. At this point in time,

「Birds?!」

A flock of birds, returning to their roost, flew across the front of the airplane.

The birds struck the fuselage, covering the windshield with blood and the magic jet engine started sucking in the birds instead of the air. It was an accident called a 『Bird Strike』 .

The magic jet engine, which had swallowed a number of birds, began to stall and abruptly stopped. With the view also blocked by the birds, the aircraft lost balance.

The result was that it simply fell out of the sky and crashed.

「Reiko!」

It crashed from an altitude of 50 metres and was destroyed to the extent that it was a total loss. Needless to say, there was no fire as it was a product of magic engineering.

Jin rushed over to the crash site. The location was marked by the assistant golem, with Soleil and Luna accommodating Reiko.

「Haaa, haaa.」

Jin was gasping for breath as he reached the crash site.

「I'm very sorry Father.」

Reiko deeply bowed her head.

「Re-Reiko, are you okay? Is your body hurt or anything?」

To Jin's question,

「I'm ok. This body was made by Father so there are no abnormalities anywhere. However, I've broken the plane you gave me... 」



Jin hugged Reiko,

「Idiot, we can remake the plane. But Reiko, there's only one of you.」

「Father, I'm a doll automata. Father is capable of making anything whether it is this body or another one.」

Reiko said with her head against Jin.

「Idiot. You are you, born from today's experiences and memories spent together, something only belonging to you. Even if a similar automata was made, there's only one of you Reiko.」

「Father...」

Reiko buried her face into Jin's chest.

「.....Thank you very much.」

And in a small voice,

「Reiko is very happy.」

With a smile, Jin replied

「Let's go home. So that a second accident doesn't occur, the second prototype will have some more improvements.」

「Yes, I will do my best to help.」

The broken aircraft was transported by Soleil and Luna, following Jin and Reiko as they headed back to the laboratory.

CHAPTER 2

FAILURE TEACHES SUCCESS

The next day, Jin started making the magic communication device.

A magic eye would fly and send information from a distance to a magic screen.

Free ether, that fills space, vibrates under certain conditions and can transmit a wave. It is similar to the relationship between air and sound.

Taking advantage of this, a magic tool capable of transmitting sound was also developed. The device was named ManaCom.

The magic screen and magic eye were combined to make a TeleCom.

「Right, you can now communicate with the ground with this.」

A protective device was then prepared.

「It would be nice if we could use a barrier to reduce the physical impact on the body.」

The idea was so that you wouldn't get hurt in a plane crash.

A magic device that created a barrier against physical damage was placed under the seat.

In case of escaping, a parachute was needed. Jin made a parachute from the thread of a Ground Spider. It was both light and durable.

「If you attach a small Magic Jet Engine, you can slow the descent velocity and control the movement.」

This is different from a normal parachute and the benefits are still unknown.

After that, with all the safety measures, the construction started on Unit 2.

The base was the same as the first unit except the shape was changed to a more sophisticated form. Parts where more strength was necessary was reinforced with Adamantium.

Furthermore, an extra seat was made for Reiko.

So far so good.

The problem is how to avoid sucking in solid materials into the engine.

Jin was troubled by this problem for some time, then he suddenly got it.

A physical defence ward would be placed under the seat.

It was a barrier but there was no problem with people inside running out of Oxygen. That meant that it lets air through it.

「Ah, but I'm not sure if it blocks winds above a certain speed.」

It would let magic such as Strong Wind or Blowing Wind through.

「Ehh, I see, the Magic Formula here... does this.」

Jin started to investigate the Magic Formula of the physical barrier ward.

Previously in Blue Land, he demonstrated his ability to evaluate Beana's magic tools.

As a result, the air intake inlet was made to repel substances other than gas. Liquids and solids were blocked by the barrier.

The barrier could cover the entire body of the plane.

The only drawback was that it would let wind magic through.

Finally, a Magi Crystal was added as spare fuel. Should the ether converter fail, it would still be able to land safely.

「In the end, the security measures have to be considered.」

The control core of the navigational aid system was recovered from Unit 1 and was copied to stabilize flight.

「Alright, let's go.」

That afternoon, prototype Unit 2, loaded with Jin and Reiko, soared into the sky above Hourai Island.

「Wow, this really feels great.」

Jin was ecstatically flying in the sky for the first time. Incidentally, the manoeuvres were mainly done by Reiko.

「Father, this plane is a lot more stable.」

Even though the final shape was adjusted by intuition, it seems to have worked.

「Failure teaches success, don't be troubled by it. The efficiency of the new model has risen.」

With Reiko as the instructor, Jin started learning how to steer the plane.

「Please slowly get familiar with the controls.」

Gradually, the steering transferred from Reiko to Jin, and by evening, Jin was the one piloting the plane.

This was made possible due to the navigational system.

「Ah, this feels great.」

After safely landing, Jin was in a good mood. Reiko was also happy.

「It feels like I've seen some good dreams today.」

Soleil and Luna are waiting at the house with dinner waiting. Jin walked back with a slight gait.

The next day, Jin tried to build himself a boat.

The hull shape was Trimaran. Similar to a Catamaran, it is suitable for high-speed navigation. Moreover, since the power source and cabin can be placed in the middle of the hull, the centre of gravity can be lowered.

The hull was mostly made from Light Silver and,

「The engine...is this!」

Based on the Magic Jet Engine, a Magic Water Flow propulsion engine was developed. The wind magic was just replaced with water magic and the efficiency remained good. Of course, the principle is different from an actual Water Jet propulsion system.

「It must avoid sucking things in OK.」

They had learned since the accident of the Bird Strike, a ward was modified to stop solids such as aquatic plants from being sucked in. After lunch, Jin took the ship to Tatsumi Bay accompanied by Reiko. The boat was carried by Soleil and Luna.

「Right, do you want to go together on the maiden voyage?」

Unlike an airplane, a boat is relatively safe. Jin started to manoeuvre the boat. Since there was no known boat steering system, it was controlled like a motor vehicle. Pressing the accelerator pushes the boat forwards, stepping on the brakes triggers underwater brake plates, forwards and backwards is controlled by a lever. A steering wheel turns the boat left and right.

「Oh, this feels comfortable.」

The prototype boat sailed from Tatsumi Bay.

「Alright, time for a maximum speed test.」

Jin fully depressed the accelerator. The Trimarans speed went up, the maximum speed is about 70kph.

「That's enough. Well, Reiko is still faster.」

Jin murmured while looking at Reiko in the passenger seat. Reiko heard it and smiled happily.

Jin was now proficient enough with the boat to sail it back to the port where Soleil and Luna were waiting.

「Well, this prototype boat NO. 1 we will name it Hydro 1.」

Water contains Hydrogen, so in a sense Jin might have picked a good but unusual name.

「Oh yea, let's call the plane Albatross.」

Jin named the plane Albatross because it resembled the shape of a bird from earth.

The next day,

「Right, I think we can start mass producing the boats and planes.」

The ship was for island defence while the plane was for reconnaissance and defence. He wanted to use them to get a better understanding of the world.

「Reiko, give the airplane to Soleil and the boat to Luna, get them to make 30 of each.
」

「I understand.」

Since it's only replicating a prototype made by Jin, it can easily be done by Soleil and Luna. Although, just to note in case, this cannot be done by the general golems of this world, only the most high performance golems can do this.

Jin is not conscious of the comparison because the only technology he knows concerning magic engineering was taught by the previous Magic Craft Meister, who was capable of making super advanced golems and doll automatons.

「Because of that, I'll be making golems to pilot the boats and planes. Reiko help me.
」

「Okay」

The golems were built with a focus on lightness so Light Silver was used.

Because it had been done many times before, 40 golems were created unceremoniously. As said before, Light Silver is an isotope of Titanium, which allows you to change colours depending on the oxide film on the surface. So, the sky golems were made light blue while the sea golems were navy blue.

「Right, now to use Knowledge Transfer Level 4... It's good that I'm accustomed to it.
」

On the first time he tried, Jin accidentally transferred too much knowledge and the backlash he received was huge. After getting accustomed to it through repetition, the time required to transfer knowledge was now shorter.

「I'll name them Sky 1 to Sky 20 and Marine 1 to Marine 20.」

Of course his naming sense hadn't changed much.

「Sky 1 and Marine 1 are the respective captains of the Air Force and Navy.」

With this, the defence of Hourai Island became a lot better, even without weapons.

「I don't want to make too many weapons...I wonder if I have a choice in this world.
」

Jin decided that with demons in this world, forces for self-defence would be required.

「Aside from that, Sky 1, using your subordinates, reconnoitres around Hourai Island and make a map. I'll teach you the procedure now.」

You can use knowledge transfer to teach the necessary knowledge in a moment. This is a lot more efficient than teaching humans. Knowledge transfer is not effective in transferring knowledge to other humans.

The position of Hourai Island would probably become more important in the world, Jin looked forward to the results.

「Now it's time to think about armour and weapons.」

Jin's desire to make things was not restricted.

「First of all is armour.」

Considering the materials, Jin headed to the underground warehouse.

CHAPTER 3

LEGENDARY EQUIPMENT?

「Although I can make basic armour and shields...」

Jin didn't really feel like putting on such equipment.

「Accessories it is then.」

Jin took a Magic Crystal out from a nearby shelf.

「Let's make a ring or pendant.」

The Magic Crystal in his hand went iridescent,

「Forming...Writing Magic Formula... I wonder if this is any good.」

The final product was a ring that exhibited all the colours from the rainbow.

「Reiko, are you there?」

「Yes Father.」

When Jin called, Reiko immediately came to his side.

「Take a look at this. It's a guard ring.」

It was the ring that he just made.

「The ring has a complicated Magic Formula written into it. I can't analyse it.」

Even though she was skilled enough in Magic Engineering to be Jin's assistant, Reiko was still no match for the Magi Craft Meister in this field.

「You can't tell? It's designed to nullify both physical and magic attacks, so I'd like to see what happens if Reiko attacks.」

「It's too dangerous. You should test it on a golem.」

Reiko was opposed. She wasn't certain if Jin, with the ring, would be able to prevent Reiko's attack.

「Hm, it's as you say. It can't be helped. Now who can test it?」

Soleil and Luna had their hands full with the mass production of airplanes and ships.

「Who's available... ah, Peridot is.」

It was the golem in charge of household chores. It's a modest role, but thanks to that, there wasn't a single speck of dust in the laboratory.

「Right, let's ask Peridot.」

So they went to the square in front of the laboratory.

「Okay Peridot, after wearing this ring, you only need to stand there.」

「Yes, I understand master.」

After putting on the ring, Peridot moved a sufficient distance away.

「Peridot, the keyword to trigger the ring is 'Barrier' . Try testing it now.」

「Yes, Barrier.」

It wasn't visible to the eye, but it should have been triggered with that.

「Reiko, start with basic magic.」

Reiko was given the go ahead.

「Yes... Fireball.」

A two meter tall fireball flew towards Peridot. But as they reached within 1 meter of Peridot, its movement becomes hampered and the fireball dissipated.

「Okay, here is the next one. Fire Bullet.」

Dozens of 30cm fire bullets flew forward. However, they were also stopped.

「Hmm, that was good. Reiko, next.」

「Yes, Flame Lance.」

Flame Lance is an advanced magic. It's powerful enough to even kill a Demon Sea Serpent. But even that magic was stopped within 1 meter.

「Right, it's effective against fire magic. Next try lightning magic.」

「Okay.」

In the end, It was found to be able to defend against all advanced magic, so Jin was greatly satisfied. In addition, it could also defend against wind and water magic.

「Reiko, that's enough for magic. Try hitting her physically this time.」

Jin wanted to test its effect against physical attacks.

「Yes, I understand. Here I come!」

First Reiko tried to punch at 10% power, but her fist stopped 10cm away from Peridot.

「Hmm, it can't be helped that the distance is shorter compared with magic. Well then, Reiko, 20%.」

「Okay.」

The barrier then blocked Reiko's fist at 20% power.

「Finally, 30%.」

「Yes, here I come.」

Reiko rarely used 30% of her power. Roughly 5% would put adults to shame, 10% was superhuman, 20% was beyond human.

The moment Reiko's fist at 30% power hit, sparks seemed to scatter, but somehow the barrier still survived.

「That's enough Reiko, thanks for your hard work. Thank you Peridot.」

Jin thanked Reiko and Peridot,

「Well then Peridot, as a reward, the ring is yours.」

「Thank you very much master.」

Peridot bowed and went away. Jin turned to Reiko,

「Reiko are you alright? Is your hand damaged or anything?」

「Yes, there are no abnormalities. Thank you for your concern Father.」

「I see. Well then Reiko, what do you think? I think it's good enough.」

「Yes. Although we didn't try, since it can withstand advanced magic, it can probably stop 50% of my power.」

For an individual's defence, it was at an unprecedented legendary class. In this world, the space is filled with ether and could be manipulated with magic. Just by saying 'Barrier', you would become impervious to everything.

「Right, let's return to the laboratory.」

Jin returned to the laboratory with Reiko and 10 more rings, identical to the first. Four were given to the 5 colour golems, except Peridot, two were planned to be given to Soleil and Luna as a reward.

Jin then made another ring which combined Magi Crystal with Mithril Silver to create a pendant, with the same Magic Formula written on it to give the same effect. The chain was also made with Mithril Silver.

「Reiko, this is yours.」

Jin held it out to Reiko.

「Eh? For me?」

Reiko was confused.

「Ah, You've helped me out a lot, also you're a girl, don't you think it would be nice to have a pendant?」

Reiko smiled happily.

「...Thank you Father. I'll take care of it.」

She received it and immediately hung it around her neck.

「Yeah, it looks good.」

Jin was also happy.

Finally, Jin started on focusing on his own equipment.

「I'll make a bracelet instead of a ring, since it would suit me better.」

A bracelet was made with Adamantium and plated with Mithril Silver. It's shape was similar to a wristwatch and had a Magi Crystal set in it.

「With this size, aside from defence magic, attack magic can also be written.」

Previously, in the city of Port Rock, Reinhardt had a wand. A magic activation sequence had been carved into it and could be activated if magic was put in.

「Let's use that as a reference... 」

Rather than just engraving the sequences, a selection was allowed. Fire, water, wind, earth, thunder, light and dark magic could be used up to the advanced level.

「Right, now to put in extra security so that it can only be used by me.」

A one of a kind legendary equipment had been made in this world.

「Time to try it out.」

When Jin muttered this,

「I will be your opponent.」

said Reiko.

They went out to the square again, and Jin shot various types of magic at Reiko. However all of it was blocked by the barrier created by the pendant, Jin was delighted.

「Well, with this magic is decent.」

It has to be said that being able to use all magic up to the advance level is definitely not ordinary.

CHAPTER 4

GOLEM ENGINE

After making a set of legendary accessories, Jin took a break. Soaking in a bath at dusk was refreshing.

「Ah, we're doing well, as we managed to bring several ideas to fruition.」

As Jin leisurely leaked a murmur, Reiko was watching him from the side.

A motor engine for rotational motion is what Jin wanted to make next.

「How to make the rotational movement from foot pedals...」

At that time, an inspiration struck Jin.

「That's it.」

「Golem Engine.」

「The idea is turning the crank shaft by incorporating the same mechanism used in a golem's arms and legs to replace the pistons.」

Jin didn't know the difference between a 2 stroke and 4 stroke engine, but he knew enough to make an engine.

「I can try to make a prototype in bronze.」

Bronze is a material commonly used because of its malleable property, which made it easy to shape with magic. Naturally, Jin thought to make a prototype out of this.

In the end, a prototype of the Golem Engine was completed before dark. It was about 50cm tall.

「Alright, time to commission this before dinner... Start!」

Inside, the drive mechanism starts to move and the crankshaft turns.

「Oh, it's turning, it's turning.」

It was found that the speed of rotation could be increased by pouring in more mana.

「Hmm, as I thought, this is the limit.」

The limit was roughly 300 rpm. As this was going to be cranked manually, the number of revolutions couldn't be any higher than this.

「Reiko, can you try to stop the shaft?」

「Yes, I'll try.」

Reiko held the 2cm diameter shaft at an output of 5%. Although the speed of rotation slowed, it didn't stop. It finally stopped at 10% output.

「Right, thanks Reiko, the Torque (rotational force) is quite something. It could even go in a car.」

It remained durable.

「Since we've found the max rotation, it's time for dinner. Reiko, don't stop it but tell me if the situation gets bad.」

With that, Jin headed for the 'Mansion' outside. Soleil and Luna made their daily meals there.

「It's Soleil today. She seems accustomed to it.」

「Yes Father.」

There was wheat porridge, bread and tea. For tea, Reiko would sneak back to Kaina village in the middle of the night to take some tea leaves. The seedling would only produce drinkable tea leaves several years after being planted.

Eating wheat porridge, drinking tea and spreading marmalade on bread. Recently, a plant similar to strawberries had been found and strawberry jam was made. Thinking about the durability of the engine, Jin quickly finished dinner and went back to the laboratory.

「Oh, Father.」

「How is it?」

「Yes, it's working without any problems.」

「Let's see.」

The Golem Engine was so hot that the excess heat radiated off it, so no one could touch it without being burned. The piston didn't have a heat sink, so this was only natural.

「Alright, let's stop it.」

When Jin stopped the engine, he took it apart. This was to determine if any parts were worn out or damaged.

「Uh huh, as I thought, the damaged parts are mostly the golem parts. An Adamantium skeleton with muscle tissue made by twisting magical fibre is best.」

If you thought that the constitution was similar to Reiko's, you wouldn't be wrong.

「Well then, let's get the production started. Reiko, get me some Adamantium.」

Reiko was tasked with collecting the heavy Adamantium, while Jin went to gather the magic fibre and Magi Crystals on his own.



「It's finished.」

Late at night, the Golem Engine was completed. The crank and shaft, which were supported by ball bearings, was mostly made with Adamantium. The golem parts were strengthened with multiple reinforcements.

As a result the torque was increased to nearly 3 times that of the original prototype. Reiko only stopped the shaft after raising her output to 20%.

「Finally, I have to make gears now.」

With that, the day's work was finished.

The next day, Jin began to seriously consider making gears. He had tried making them before but when they were put together they were stiff or loose making them useless.

Even Magi Craft Meisters had a weakness.

The Magi Craft Meister's ability was similar to a 3-D software drawing system. By default, the basics shapes of balls, discs or cubes could be copied.

But since there wasn't a concept of gears, as long as there wasn't a reference, it was hard to make it perfect.

「Hmm, how exactly can I make the model.」

Jin was grumbling as he ate breakfast. Reiko was worrying at the situation.

「Father, you have to stop thinking about it during meals.」

「Oh, ah? You're right... In short first divide the circumference equally...」

「Father!」

Unable to hold it in, Reiko finally scolded Jin.

「...Reiko?」

Surprised by Reiko's yelling, Jin looked at Reiko.

「Ah, ah, a...」

Reiko herself was surprised that she yelled at Jin.

「I-I'm very sorry.」

Whoever she learned from, Reiko went into a dogeza.

「I have had an irreverent attitude to Father. Please punish me! 」

「.....」

Jin reached for Reiko. Reiko had already determined her resolution. She wouldn't defend or do anything, when Jin's hands touched her, she would be deconstructed in a blink of an eye.

But contrary to expectation, Jin's hands gently stroked Reiko's head.

「Sorry Reiko, I made you worry. It's as you say. From now on correct me if I'm wrong.
」

「.....You're not angry?」

「Why should I be mad. Reiko yelled because you were thinking of me.」

Jin said while finishing off the rest of his breakfast.

Jin had been thinking since the morning but hadn't come up with any good ideas. After lunch, Jin was drinking tea at the mansion. The cup in his hand was cylindrical. He fiddled around with it while thinking of gears.

「In short, I can translate a single gear into copies. With that I can make any number of identical teeth.」

Ball bearings only need to be the same weight and spherical but a gear cannot deviate even slightly.

「Father, please don't try the impossible.」

Reiko was anxious seeing Jin suffer like this.

But Jin didn't seem to hear it.

「.....」

Reiko came to the conclusion that it wasn't possible to stop Jin from thinking about it. Instead it would be better to help him to get him out of this state.

Therefore, using Engineering magic, Reiko processed a wooden board that was at hand into a circular shape. Shapes of various diameters were created and placed in front of Jin.

「Hmm? This is?」

Jin noticed it and looked up.

「I was wondering if this could help Father think.」

Jin took one in his hand. Disc. When combined it made a friction drive. In order to increase friction, teeth were cut into the side of the disc.

「First you have to think about the materials, you want a material that won't slip.....」

A thought suddenly hit Jin.

「That's right! First of all create a linear gear...rack. Then cut the number of teeth required, round them off...done!」

「Father?」

「Ah, Reiko. Looking at the disc you made me, I thought of something. Thank you.」

Jin stroked Reiko's head while saying so. Reiko's narrowed eyes looked very happy.

「With this, I can probably make spur gears. If I can make spur gears, it is likely I can also make bevel gears.」

In short, because of the equal divisions of the circumference, it is easy to make, using that as a reference, harder production is possible.

「Father, it's time for dinner.」

Reiko said,

「Hmm? It's this time already.」

The moon was already in the sky.

「I'm starting to feel hungry as well.」

Jin stretched while saying so and went for the meal.



But after dinner, Jin started thinking of a wide variety of ways to fabricate gears, very late at last came up with a method.

「Okay, you can go to sleep now. Goodnight Reiko.」

「Yes Father, goodnight.」

Relieved that Jin went to bed as well, Reiko was glad to be pat by Jin today.

CHAPTER 5

A GEARBOX, A MAGIC TURBINE, AND...

The next morning, after Jin woke up and had his breakfast, he began making a gear.

First, he created a linear gear as a reference.

To begin the process he prepared a straightened adamantium strip, then he made the teeth of the gear. He didn't worry about the module (the size of the teeth). This is how Jin normally works. (TLFalin: It actually says module and has the part in the parentheses, it seems the author researched this to give a more authentic explanation, so there may be more as the chapter progresses)

「Is this much good?」

Because Jin plans to use it for a car, it needs to be strong, but since he's using Adamantium, it'll work well even with its small size. Although it's simple to make it big by itself, Jin decided to start from something small.

For the time being, he made 200 copies of his first one. These were made without difficulty.

If lined up face to face, it becomes immediately apparent that the spacing of the teeth is the same and that they're all identical.

「Well, if I can make do with one band, and [fusion]. Could I... yes, I can do it!」

He completed the teeth on the linear gear.

「After that, yeah... make a gear with the number of teeth that I need to fit this. Yes, it's a success! Now, [Forming] it into a circle... I think I'm done with the outside of the gear with this.」

At this stage, he had a gear with his desired number of teeth. It is, so to speak, a doughnut with teeth.

「Now, to fill the inside circle of the gear, [Fusion]. Great, it worked!」

In front of Jin laid a completed spur gear.

When Jin made another gear with a different number of teeth and tried to engage the two, they engaged so neatly that Jin felt like dancing on the spot.

If a spur gear was made, then Jin could make a bevel gear somehow as well. However, it will be limited to the same number of teeth.

Still, it was fascinating that it could change the rotation 90 degrees, and it would quickly increase the kinds of machines Jin could make.

「Yosh, let's make a car!」

He made the chassis with light silver and got carried away and made a 4 cylinder engine, no, a 4 part engine. The tires are made neatly from rubber and in the afternoon the car is completed.

「Un, un, it's nice.」

Because there's no transmissions, it can only be operated by an accelerator and a brake, so it's not automatic. Because the output of the golem is constant, it can work.

After driving around in the flat area in front of his research center, Jin got off satisfied.

「Father, I feel that the golem horses were more versatile.」

「Huh?」

Jin couldn't understand Reiko's question for a minute, but shortly after realized the implications of it.

The airplane had a [Magic Jet Engine] and the ship had a [Magic Water Jet].

Although Jin had thought of the golem engine for land that's paved, he forgot that most of the world hasn't been paved.

How much time until the era of cars in this world?

「Hmm, did I become complacent? Well, it'll work for this island.」

Was said,

「Reiko, have Topaz make a road network on the island. You don't have to pave the surface, use [Solid], It'll prevent the weeds and also allow something heavy to go across it.」

「Yes. Should I give priority to Tatsumi Bay, the fields, and the airport?」

「Ah, yes, please.」

Because I made the airport for the airplane, the maintenance of the road was urgent business. A large Warp Gate is installed at each place as well, but a road is still necessary.

「Aaah, I'm hungry.」

It was already pitch black outside.

「Father, I made dinner today.」

「Ah, Reiko, I'm looking forward to it.」

Because Soleil and Luna were busy mass-producing the airplanes and ships, Reiko took charge of cooking for Jin.

「It's pure white bread, isn't it?」

「Yes.」

Reiko peels the wheat, one by one, and the bread was made with the ground down flour.

「Mmm, tasty.」

Jin eats the bread and has vegetable and fish soup, after all, the bread without the crust is more delicious when mixed in.

「I'm sorry, the rice hasn't been found yet.」

「No, I understand, I'm asking for a lot. I'll search for it in the western country I'm going to this time.」

Since they couldn't find rice in the port town, Port Rock, Jin thought they might find it in a western country where the things might be different and unusual.

7 days since he returned to Hourai Island...

「Might as well make a turbine.」

The first day Jin began with the lines. The principle was simple, to put an impeller in a sealed container and to turn it with wind magic.

Since wind doesn't need to be taken in from the outside it circulates well and doesn't leak, so it can be done easily.

「Oh, the number of revolutions is high as expected.」

Because it's basically a windmill, the rotation speed is high. On the other hand, the torque is inferior to a golem engine.

「Oh well, it'll be useful for something.」

It was fun to make.

Reiko savors the significance of being near someone like Jin.

The data of the work Jin completed is also saved within Reiko, which was ordered and preserved so that it may be possible to reproduce at any time. It is the role of an auxiliary storage device for Jin.

「Father, what happened to the talk of creating a weapon?」

And, like a secretary, she points out what Jin forgot.

「Oh, did I say something like that? It will be necessary for the defense force.」

Jin said and then was lost in thought

「[water jet], [laser] and [induction]...」

He decided to make a laser standard equipment.

The reason being that it's easy to make non-lethal if he changes the strength. Although the defense method is limited, it's easy to aim and hard to make. (TL: pretty sure he's talking about for others, so if one gets lost, they can't just reproduce it).

「Ok, I should be able to make it like this.」

Jin has Reiko gather the materials right away so he can begin manufacturing. The structure is simple. In the form of a thin flashlight, he writes the [magic formula] inside.

「Ok, now for authentication.」

「Father, what is authentication?」

Reiko asked about the unfamiliar words.

「Ah, let's say, for example, you lost it and someone else found it, it still won't work for that person.」

Without Jin's magical power waveform it won't operate. It was named the magic waveform authentication [certificate].

Because all the golems and Reiko inherited Jin's magic waveform when he made them they can use it without a problem.

「And that's done.」

The prototype was completed. It looked like a tube and wasn't of the pistol type.

「Do you want to try it?」

They go outside of the laboratory and aim at a pile of rocks at the edge of the open space and fire the laser.

Thin rays the size of a needle pierce the rock in a few seconds.

「Yes, a success.」

Jin changes some of the settings while saying so and prepares to fire once again. The range is short, which slightly diffused the rays, but the rock was vaporized immediately this time.

「This is dangerous, we shouldn't use it except in an emergency.」

Jin said and decided to consider another low power weapon.

「How about paralysis.... a stun gun!」

When Jin first met Beana in the Blue Land, she had a "Paralysis Cane". This allowed him to understand that such a magic tool already exists.

「Well, I'll make something a few stages above that.」

Jin was enthusiastic but...

「Father, it's almost time for lunch, please make sure you eat.」

Reiko told Jin and he obediently left the research center and went towards the house.

「Did Soleil make today's lunch?」

The menu was toast, citron marmalade, a salad, and eggs sunny-side up. Although it looks like breakfast, Jin doesn't worry about it and eats.

「Gouchisousama.」

Immediately after eating, he headed back to the laboratory.

「As usual, when it is about making something, father always loses sight of his surrounding.」

Reiko followed immediately after Jin to help him.

The stun gun was easy to complete, because he had looked at the "Paralysis Cane" before. He resolved some of the faults and improved the efficiency.

The final product resembled a wand in appearance and was about 30cm long. He also made 2 police baton type ones as well. The wand was for self defense and the baton was for security.

The wand was made of light silver and the baton was made of a mithril and adamantium composite.

「Since it's come to this, I'll also make an army.」

Jin said so and made 20 golems and name them from 1-20, Land.

With this, Hourai Island's armed forces were completed.

CHAPTER 6

CONFIRMING THE LOCATION OF HOURAI ISLAND

Day 8

“Father, Sky-1 has come to report.”

“Has the result of the reconnaissance come back?”

Jin, who finished breakfast, and was drinking tea while waiting for the report, hastily headed for the laboratory. The laboratory is better equipped than the “House”.

When Jin and Reiko got to the to the basement hall of the laboratory, Sky-1 was already waiting.

“Oh, Sky-1, have you finished the aerial reconnaissance?”

“Yes. I have created a schematic overview of the area surrounding Hourai Island.”

Saying that Sky-1 spread out a big piece of paper. So to say, it’s actually the leather of a demon beast tanned white. It’s a durable material that could even withstand 1000 years without breaking.

“Hmm ...’

Jin was impressed with the schematic. It was drawn beautifully.

The Map centered on Hourai Island, heading east was the ocean. On the west side part of the continent was drawn.

“This continent is the continent with the Klein kingdom and the Elias kingdom.

“Yes, that’s right.

Sky-1 affirmed Jin’s guess.

“Alright, continue investigation from the sky with this condition. While you fly over the continent, do not let the people below you, become aware of your existence”

“Yes. I will fly as high as possible.”

“Yeah, Do that.”

Even if there were health concerns for humans when traveling through the sky such as atmospheric pressure, oxygen concentration and coldness, the golems aren’t affected.

Jin continues to examine the map.

“This must be the Kingdom of Elias. To have such a form, and this is probably the area that I boat raced, and this is Io Island.”

And if you look even closer.

“Is there another island between Hourai Island and the containment? Which is much smaller?”

Jin thought that the Island could be an outpost for Hourai Island or maybe a villa.

“The use of the plane is permitted. Take some of the Army Golems and aircrafts and investigate the island”

“OK”

“So, if it is an uninhabited island, then I would like to make it into one of our islands. And we can call it the main Island.”

Jin called Soleil and Luna as well as 5 colored golem maids, Marine-1, Land-1, to explain the Future plan.

1. When inviting someone in the future, first invite them to the “Villa”.
2. The “villa” is thoroughly maintained, to show that it looks like Jin is living there.
3. When it’s time, it will be treated as a dummy for Hourai Island.
4. The name of the island is “Kunlun Island”.

It was a hobby of Jin’s to pick out such names.

“Did you understand the policy and the finer points getting stuck in the future? 」

in the confirmation of Jin, everyone who was there answered with yes.

“If you don’t have enough manpower, just tell me and I will send over more”

“Yes my master, if you are offering that too, please increase the number of your subordinates.”

since the 5 golem maids asked altogether, Jin accepted. Besides Marine-1, Sky-1 and Land-1 there was a Shortage of people.

“Ah’ understand.”

That was why Jin decided to increase the number of golem subordinates that day.

“Father, Is your Magic Power ok?”

“Oh, there is still room for more.”

“I guess that’s alright then.”

Actually, since Jin's body is sustained by magical Power, the quantity of active mana that it possesses was an extraordinary amount or it would be impossible. It would be a while before Jin notices it himself until his peers would point it out for him.

Reiko had no other choice but to stay silent as there was no evidence.

That's why if an ordinary mage had tried this they would have had used all of their magic long ago, and finally the golems were finished.

Five golems each were directly commanded by Soleil and Luna. The names are Planetarium 1-5 for Soleil, and Satella 1-5 for Luna. The type of model was female.

The 5-colored golem maids each had 90 bodies. Including the 10 previous bodies, there was a total of 100 bodies, which also donned the Female Type model.

80 golems each for the Sky, Marine and Land golems. A total of 100 bodies in each faction. The number of course, was 21-100. The Type of model was male.

"Ah, I'm really tired ..."

Jin muttered while he relaxed in the bath. I got tired more physically than magically.

Even though Jin let Soleil and Luna, as well as the Planetarium's and Satella's help him with the golem creation, it would still be a world record of most golems created in 1 day.

"Reiko, how is the availability of materials?"

It seems that Jin also became worried because he consumed large amounts of materials to create all the golems.

"Yes, it is okay. It is safe to make over 1000 more golems, with copper, nickel and steel, light silver, adamantite etc. as for 1000 years, the golems just kept digging without rest."

“Originally, this island was abundant in mineral resources that’s why mother chose this Island.”

Due to their nature, the underground resources within the vicinity of Volcanoes are often known to be there. Reiko also explained to Jin that the risk of eruption was magically observed and relaxed.

“The predecessor was amazing”

even in the modern Earth, it is impossible to defeat the energy of a volcano.

“Would you like to go to potluck in the afternoon tomorrow?”

The promise with Reinhardt is after 10 days. It is the day after tomorrow.

“I did so much in these 8 days”

“Yes, indeed father.”

Reiko who refrained from standing reports.

“Reiko, thank you for helping out.”

Thank you so much Reiko.

“No, it’s because I exist to serve you father”

While answering Jin, Reiko seemed to be happy

“It is true though, well time to get out”

Reiko handed a bath towel to Jin who just got out of the bath. Jin wiped his body and got dressed.

“Reiko, what is today’s dinner?”

I asked.

“Certainly, it’s grilled fish and fried shrimp.”

“Oh! That sounds delicious”

Because there is oil, breadcrumbs, wheat flour and eggs, you can make tempura and fry it. Of course it was taught by Jin.

There was something like a sauce so there was enough to be fried.

“Ah, it’s good.”

Jin muttered satisfyingly while eating persica after his meal.

“I am honored by your words, father”

Luna in charge of the meal tonight happily said. Soleil and Luna are recently having glimpses of emotional expression, so it must be from the influence of Reiko.

(But it is still different for human beings)

Don’t say it out loud, Jin muttered solely in his mind.

Whether it’s Reiko or any other golem, they are absolutely obedient to Jin who is their creator, so it is sometimes lonely.

(After all I wonder if humans want to be among those who are Human as well?!)

Jin who was thinking such a thing was looking up at the night sky from a window.

“Is father not cold?”

Reiko said,

“Ah, it’s Alright”

As I answered, a nostalgic memory of living in the Kaina village came to mind.

On another note: Since Jin unconsciously absorbs external magical power from his surroundings, the magical power within Jin doesn't reduce much. This is also a benefit of the body he was supplemented with when Jin reincarnated.

CHAPTER 7

PREPARATIONS FOR THE JOURNEY

When Jin finished breakfast the next day, he began the preparations for the trip.

「Umm, change of underwear, shirt, pants and a jacket」

Because he can clean my clothes with [clean up], he only takes two sets of clothes.

「.....um, is there anything else I need?」

It is the first time Jin is going to be travelling in this world, so he's confused by it, and he can't count on Reiko in this regard.

「For now, I'll treat it like when I traveled on earth.」

Money, medical supplies, handkerchief, tissue, guide book and camera.

「There are no guide books or cameras, huh.」

While saying so, Jin decided to make a camera soon.

「And the handkerchief with the crest of Reinhardt's house.」

It was what he was given to confirm his identity, he couldn't forget it.

「After that, I'll put it in this bag.」

After he made sure that nothing was missing, he finished his preparations.

「Father, what shall we do with the Warp Gate?」

Because of the Warp Gates, if they needed anything they could return to Hourai Island at any time.

「Well, umm, what would you do?」

Jin was unsure of whether or not to bring it because it was so bulky.

「Well, if I only bring the Magic Device, I can do something about the housing on the spot.」

As long as he has the Magic Device for the Metastasis, he can do something about the mount and housing afterwards as long as he has the materials available.

「That's right, I think that's good. Should we take two sets?」

「Yeah, even if something happened to one of them, as long as we have two sets we should be able to return.」

With that, the Magic Device that could be considered the heart of the Warp Gate was prepared.

He wrote the control system on a plate with a Magic Crystal of the darkness attribute.

Because it has to be synchronized to the magic wave pattern on the master side in Hourai, it's a part that can only be made on Hourai island.

「Yosh, this should be good.」

Without the housing, there's no issue of weight as the two units only weigh about two kilograms.

「Is there anything I've forgotten?」

Well, even if he forgot it, he could probably buy it and in the worst case, he could make it.

「Father, why don't you bring a water bottle just in case?」

「A water bottle, sure. There are insulated properties, and there should be a magic formula to purify the water inside.」

He decided to make it right then. Making it out of light silver, he made the double sided structure and removed the air from inside. In short, he made a thermos bottle.

Furthermore, he made a magic circuit on part of the bottom to purify water so his stomach wouldn't have trouble with unboiled water.

「And that's done. I also made one for you, Reiko.」

「I don't need to drink, but I'll reserve it as a spare for father.」

She said as she received it.

「Then....」

「Since you were invited, father, how about something as thanks for Reinhardt?」

「A gift, huh...?」

After Jin thought for a while, he took a milky white Magic Crystal and...

「[Forming]... [Magic Formula], [Writing].」

A ring was created. It was an inferior version of the Guard Ring.

「Shall I call it a Protection Ring?」

Jin didn't know whether protection or guard sounded stronger, but he named it this way because he named the first one guard.

「I'll make a few and maybe I'll give them out if there's a good opportunity.」

「That's right, although I have the Guard Ring, maybe I should have something like a sword?」

Because Reinhardt knows that Reiko is an automata, he wouldn't think much of Jin's equipment.

「If it's a sword, it's easy to handle and...」

「I see.」

As Jin was saying so, he immediately took out some adamantium.

「[Forming], [Hardening], [Surface Treatment].」

The sword was complete. It was a small Japanese sword with a slight curve. It was about 50cm and Reiko thought it looked good. Since he'll be using magic, he needed something to put the blade in.

「Father, this is...」

「Yes, was this knowledge copied into you, too? This isn't a sword, but a katana. It's lighter than a regular sword and it's tough, too.」

While he was saying so, he made a sheath out of light silver. The color of the oxidation film made it pink, so that even if Reiko had it, it wouldn't be out of place. The sword harness was made to look silver.

「Though I'm not familiar with the structure of a Japanese sword, this should be OK.」

The hilt was made of a fang from a Siam Dragon, and the string was made from the thread of a Ground Spider so it wouldn't slip.

「Ok, it's complete. The inscription.... because it's pink, how about peach blossom?」

And he handed the finished "Peach Blossom" to Reiko.

「Thank you, I'll make sure to take care of father with this.」

As he thought the preparations were complete with this, he decided to issue instructions to Soleil and Luna for his absence.

「Then, if there is anything...」

Jin started to say and then...

「H-Hold on!」

As he said so, he rushed back into the workshop and Reiko followed behind him. Soleil and Luna stood by as is.

「What happened father?」

Reiko asked Jin as he began to look for something in the workshop.

「Oh, I made a Mana Cam.」 (TLFalın: マナカム, it's basically a cell phone, don't know why it's called a cam)

Jin had forgotten until now that he had made one.

「All right, I'll make two sets first of all so that I can talk with Reiko and Reiko can talk with Soleil or Luna. If there is something, you can contact them with this.」

For the moment, he didn't call it a cell phone because he cannot choose who to talk with. It's just a transceiver. Because it's about the size of a modern cell phone, it's not too bulky.

「I don't think I've forgotten anything with this.」

Relieved, Jin again went and gave instructions to Soleil and Luna.

「...Do you understand?」

「Yes, understood.」

「If there is anything, contact us by the Mana Cam.」

「Yes.」

Saying so, Jin and Reiko went to Port Rock using the warp gate.

At Port Lock it was morning local time.

They went to the Sea Bower Inn which they were familiar with.

「Oh, long time no see, did you go somewhere?」

The proprietress greeted them.

「It has been a while, since the competition. I heard from Marcia that you made her golem.」

According to her, Marcia seems to be running around to open her shop as a Shipwright.

「I see, how's the town now?」

She had paid off her debts and had bought the tools she needed, and then went to another town to buy some materials the day before.

「So, what're you doing today? Are you staying the night?」

「Yes, but it'll only be one night.」

Jin said and,

「Well then, I'll go with the same 300 as before. The room I had... Bonito is still vacant, right?」

He got the same room as before. Well, the competition is over, so there were less tourists than before.

「Now, we'll wait to be picked up tomorrow.」

Jin murmured so, and sat down on the familiar bed.

